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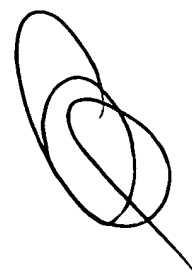
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Class 222 DISPENSING

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- 1** **PROCESSES OF DISPENSING**
- 590 . Molten metal
- 2** **CHECK CONTROL**
- 3** **GAS OR VAPOR DISPENSING**
- 4 . With nongaseous material dispensing
- 5 . With cutter or punch
- 6 . Parallel connected, serially used
- 591** **MOLTEN METAL DISPENSING**
- 592 . With heating or cooling
- 593 .. Heating
- 594 . Flow controllers or assists
- 595 .. Fluid pressure assist
- 596 .. Piston displacement
- 597 .. Closure
- 598 ... Movable about an axis
- 599 Perpendicular to flow
- 600 ... Reciprocating transverse to flow
- 601 ... Stopper operator structure beneath receptacle
- 602 ... Stopper operator structure above receptacle
- 603 . Gaseous fluid engages molten metal
- 629 . Submersible dipper or trap chamber
- 604 . Tilting receptacle
- 605 .. Teakettle type
- 606 . With subjacent flow guide
- 607 .. Unattached
- 14** **CUTOFF OPERATED BY SELECTIVELY PRESET VOLUME OR RATE OF FLOW-RESPONSIVE MECHANISM**
- 15 . With means to prevent change of setting during discharge
- 16 . Operating cycle including reset to starting position
- 17 . Moving cutoff operating element with variable initial position
- 18 .. Having plural revolutions
- 19 ... Plural dials
- 20 .. Cutoff by valve closing
- 21 . Cutoff by single trapped volume
- 22 . Cutoff set after discharge begins
- 23** **WITH RECORDER, REGISTER, INDICATOR, SIGNAL OR EXHIBITOR**
- 24 . Register with shutter
- 25 . Plural
- 26 .. Two or more volume devices
- 27 .. Register and signal
- 28 .. With common operating means
- 29 . Plural scale
- 30 . Recorder
- 31 . With motion ratio adjusting means and/or relatively adjustable scale and pointer
- 32 . With zero-setting mechanism
- 33 .. Operating cycle including reset to zero
- 34 .. With means to prevent zero setting during discharge

- 35 .. With means to prevent discharge prior to zero setting
- 36 . Totalizer for successive dispenser cycles
- 37 .. Varying cycles or quantities per cycle
- 38 .. Reciprocating (including oscillating) dispenser part
- 39 . Audible
- 40 . Flow and/or overflow type
- 41 . Position or extent of motion indicator
- 42 .. Selection from plural outlets, valves or traps
- 43 .. Comprising an adjustable stop or stops
- 44 .. Scale and pointer, with detents
- 45 .. Flexibly connected indicator and dispenser element
- 46 .. Common screw means for indicator element and dispenser part
- 47 .. Indicating element rigidly carried by movable dispenser element
- 48 ... Pivoted or rotary dispensing part
- 49 ... Slidable indicator element projecting from container
- 50 Scale or container
- 51 . Float-level indicators
- 52 **AUTOMATIC CONTROL**
- 53 . Involving conveying conduit jacket and/or inert atmosphere (including vacuum) providing means
- 54 . Temperature responsive or soluble controller
- 55 . Constant weight, volume or pressure control by output
- 56 . Delivery from source controlled by quantity in discharging receiver
- 57 . By weight, volume or pressure of a second dispensed material
- 58 . By the weight of the material in the supply container
- 59 . Cutoff operated by rate of flow responsive mechanism
- 60 .. Single complete revolution of controller element
- 61 .. Of dispensers with fluid pressure discharge assistance
- 62 .. Float-controlled pressure liquid
- 63 . Motor control
- 64 . Material level control
- 65 .. Full and/or empty interlock
- 66 .. Empty container cutoff
- 67 .. Float-operated flow controllers
- 68 ... Plural
- 69 ... For vent only
- 638 **INCLUDING TIMER**
- 639 . For timing dispensing period
- 640 .. Of beverage or beverage component dispenser
- 641 ... Including electrical timing circuit
- 642 .. Of discharge assistant
- 643 ... Rotary
- 644 .. And means for timing the period between dispensing cycles
- 645 ... Of aerosol dispenser
- 646 Including electrical timing circuit
- 647 And mechanical timing element
- 648 And battery power supply
- 649 . For aerosol dispenser
- 650 . For plant or animal feed dispenser
- 651 . For wash cycle ingredient dispenser
- 652 .. Movably mounted ingredient container
- 71 **VOLUME OR RATE OF FLOW METERING**
- 72 . With meter bypass, gas separation, antisiphon priming
- 73 . With hose pressure relief or maintenance
- 74 **HOSE OR OTHER MOVABLE DISCHARGE GUIDE INTERLOCKS AND INTERCONNECTIONS**
- 75 . Switch or motor control and discharge controller actuator
- 77 **WEIGHING**
- 78 **SIMULATIONS**



<u>79</u>	. Firearms
<u>80</u>	WITH CUTTER AND/OR PUNCH
<u>81</u>	. To form dispensing opening in container
<u>82</u>	.. With discharge assistant
<u>83</u>	.. Mounted for relative motion
<u>83.5</u>	... With sleeve or rest for container cut
<u>85</u>	.. For cutting plural openings
<u>86</u>	... With sleeve or rest for container cut
<u>87</u>	.. With container-destroying means
<u>88</u>	.. With sleeve or rest for container cut
<u>89</u>	.. With nonfriction fit means to secure discharge guide to container
<u>90</u>	... Abutment for container interior
<u>91</u>	... Screw
<u>92</u>	COLLAPSIBLE WALL-TYPE CONTAINER
<u>93</u>	. With additional article-holding means
<u>94</u>	. Plural container and/or compartment
<u>95</u>	. With wall-collapsing means
<u>96</u>	.. With interconnected flow controller or closure operating means
<u>97</u>	.. Plural types
<u>98</u>	... Winding and roller types
<u>99</u>	.. Winding type
<u>100</u>	... With casing or support
<u>101</u>	.. Roller type
<u>102</u>	... Plural roller
<u>103</u>	.. Clamping type
<u>104</u>	.. Twisting type
<u>105</u>	. With casing or support
<u>106</u>	. Combined
<u>107</u>	. Nonmetallic
<u>108</u>	DRIP, LEAKAGE OR WASTE CATCHING OR DISPOSAL
<u>109</u>	. Return to main supply
<u>110</u>	.. Valved
<u>111</u>	.. With enclosing cover
<u>113</u>	WITH ILLUMINATOR OR BURNER
<u>576</u>	INKWELL
<u>577</u>	. With support (i.e., inkstand)
<u>578</u>	. Including nongravity feed to dip well
<u>579</u>	.. Spillover type
<u>580</u>	.. Including discharge assistant supporting and movable with dip well
<u>581</u>	... Diaphragm-type discharge assistant
<u>582</u>	... Biased for resetting
<u>583</u>	. Including dip well filled by immersion into supply
<u>584</u>	. Tilttable to fill dip well
<u>585</u>	. Barometric
<u>586</u>	.. Including base supporting removable inverted container
<u>587</u>	... And valve or base-opened closure
<u>588</u>	.. Dip opening below peak level of supply
<u>589</u>	... Including closure or valve for dip well outlet
<u>129</u>	PLURAL SOURCES, COMPARTMENT, CONTAINERS AND/OR SPACED JACKET
<u>129.1</u>	. Cabinet-type dispenser for single mixed drinks
<u>129.2</u>	.. One ingredient operates dispensing means for another
<u>129.3</u>	.. With ingredient charge measuring
<u>129.4</u>	... Plural measured charges in single drink
<u>130</u>	. At least one nondispensing
<u>131</u>	.. Jacketed
<u>132</u>	. Three or more diverse sources
<u>133</u>	. Measured discharge from one and indeterminate flow from another
<u>134</u>	. Interconnected discharge volume varying means
<u>135</u>	. With discharge assistant for each source

- 136 .. Single, operable on material from all sources
- 137 .. Unitary reciprocating
- 138 .. Two or more rotary or swinging
- 139 ... Co-axial
- 140 Vertical axis
- 141 Single plane
- 142 ... Parallel axes
- 142.1 . Hand manipulable shaker type
- 142.2 .. Selection by relative movement between containers or containers and casing
- 142.3 .. Containers removable from base or casing
- 142.4 .. Selection as a result of container shape, configuration or arrangement
- 142.5 .. Container within container concentrically arranged
- 142.6 .. With common selector
- 142.7 ... Interconnected relatively movable closures
- 142.8 ... Bodily slidable closure
- 142.9 ... Axially rotary closure for axial outlets
- 143 . Packing or stacking arrangements
- 144 . Rotatably mounted assembly
- 144.5 . With selecting means
- 145.1 . With common discharge
- 145.2 .. Including discharge path cleaning
- 145.3 .. Dispensed product retains identity of individual material (e.g., striped toothpaste)
- 145.4 .. Movable material discharge guide
- 145.5 .. Having mixing chamber
- 145.6 ... Including mixing means
- 145.7 .. Having variable flow control
- 145.8 ... For common path
- 146.1 WITH HEATING OR COOLING MEANS**
- 146.2 . Heating only
- 146.3 .. Having an aerosol
- 146.4 .. By steam
- 146.5 .. By electrical energy
- 146.6 . Cooling only
- 147 WITH REFILL PREVENTING MEANS**
- 148 WITH CLEANING MEANS**
- 149 . Element extending through dispenser outlet
- 150 .. Operated by resilient container walls
- 151 .. Extending inwardly through container outlet
- 152 WITH CONVEYING CONDUIT JACKET AND/OR INERT ATMOSPHERE (INCLUDING VACUUM) PROVIDING MEANS**
- 153.01 WITH LOCK OR FASTENING SEAL**
- 153.02 . Plural
- 153.03 . Lock actuated by key or tool
- 153.04 . Lock operation dependent upon dispenser position
- 153.05 . Single-use fastening seal
- 153.06 .. Frangible
- 153.07 ... Pull tab
- 153.08 .. Cord
- 153.09 . Inhibiting disassembly

<u>153.1</u>	.. Overcap
<u>153.11</u>	. For a fluid pressure discharge assistant
<u>153.12</u>	.. Maintain dispenser in open position
<u>153.13</u>	. Inhibiting actuation of discharge assistant
<u>153.14</u>	. Inhibiting operation of flow controller or closure
<u>154</u>	INSPECTION DEVICES
<u>155</u>	. External gauge tubes
<u>156</u>	. Sight openings
<u>157</u>	.. Graduated for level determination
<u>158</u>	. Graduated transparent container or trap
<u>159</u>	. Transparent flow-line section
<u>160</u>	MOVABLY MOUNTED SUPPLY CONTAINER
<u>161</u>	. Vibratory (i.e., for agitation of container contents)
<u>162</u>	. Moving relatively to trap, impeller or valve to cause discharge
<u>163</u>	. Adjustable relatively to discharge assistant to vary the discharge volume
<u>164</u>	. Tilttable
<u>165</u>	.. For refilling or changing cartridges or containers
<u>166</u>	.. For gravity discharge
<u>167</u>	. Rotatable
<u>168</u>	.. Vertical axis
<u>168.5</u>	... Circumferentially arranged measuring or trap chambers
<u>169</u>	.. Peripheral discharge
<u>170</u>	... With trap chambers
<u>171</u>	... With sleeve-type discharge controller
<u>172</u>	... With annular outlet
<u>173</u>	WITH CASING OR SUPPORT
<u>174</u>	. Pole or extension
<u>175</u>	. Body carried and/or operated type
<u>608</u>	. Ambulant
<u>609</u>	.. With assembly or disassembly feature
<u>610</u>	... Dispensing means detachably carried upon vehicle
<u>611.1</u>	.. With guide or guide line marker
<u>611.2</u>	... Mortar applying machine
<u>612</u>	.. With height adjustment
<u>613</u>	.. Dispensing means driven or controlled by surface contact
<u>614</u>	... Ground wheel operated discharge controller
<u>615</u>	... With variable transmission
<u>616</u>	... With clutch
<u>617</u>	... Fluid flow discharge
<u>618</u>	... Plural ground wheel driven discharge assistants in series
<u>619</u>	... Ground wheel driven vibrator or jarring means
<u>620</u>	... Rotary motion of ground wheel to reciprocating, oscillating, or linear motion
<u>621</u>	.... Fluid pump
<u>622</u>	... Endless conveyer
<u>623</u>	... Ground wheel driven rotary discharge assistant or rotary agitator
<u>624</u>	.... With adjustable discharge controller
<u>625</u>	..... Sliding gate or shutter
<u>626</u>	.. Motor operated dispensing means
<u>627</u>	... Power take off
<u>628</u>	.. Manually actuated fluid pump
<u>179</u>	. With pedal-controlled discharge means
<u>179.5</u>	. Removable for discharge
<u>180</u>	. Bracket or suspension supported
<u>181.1</u>	.. For bottom discharge
<u>181.2</u>	... Suspension supported

<u>181.3</u>	... Supported on vertical wall by container integral with wall or by a plate support means
<u>182</u>	. Enclosing cover for actuating parts of discharging means
<u>183</u>	. Jacketed
<u>184</u>	. Extended sidewall base
<u>185.1</u>	. For bottom discharge dispenser supported on horizontal surface
<u>186</u>	. Foot piece or rest
<u>187</u>	WITH WICK OR ABSORBENT MATERIAL FEED
<u>188</u>	WITH FLUID TRAP SEAL FOR INLETS OR OUTLETS (E.G., VENTS)
<u>189.01</u>	WITH FLAME ARRESTER
<u>189.02</u>	WITH SIFTER
<u>189.03</u>	. Integral with container
<u>189.04</u>	. Plural
<u>189.05</u>	. Including moving mechanism
<u>189.06</u>	WITH FILTER (E.G., STRAINER)
<u>189.07</u>	. Portable drainer
<u>189.08</u>	. Plural
<u>189.09</u>	. Associated with vent passage
<u>189.1</u>	. Internally extended outlet pipe (e.g., diptube)
<u>189.11</u>	. With discharge assistant
<u>190</u>	WITH MATERIAL TREATMENT OR CONDITIONING MEANS
<u>191</u>	WITH TOOL OR IMPLEMENT HANDLE
<u>192</u>	COMBINED
<u>630</u>	FLUID FLOW DISCHARGE
<u>631</u>	. Fluid flow generated by manually actuated working member
<u>632</u>	.. Flexible working member
<u>633</u>	... Bellows or bulb
<u>634</u>	.. Telescoping supply container
<u>635</u>	. Pressurized aerosol container
<u>636</u>	. From movable trap chamber
<u>637</u>	. Open blast
<u>195</u>	WITH GAS AGITATION
<u>196</u>	JARRING AND/OR VIBRATING
<u>196.1</u>	. Hand manipulable shaker type
<u>196.2</u>	.. Movable outlet element
<u>196.3</u>	... Pattern-type outlet with hole clearers
<u>196.4</u>	... Caged outlet element
<u>196.5</u>	.. Guided or restrained internal element
<u>197</u>	. Movable or conveyer-type trap chamber
<u>198</u>	. Single outlet bounded by plural vibrating members
<u>199</u>	. Bottom forming member reciprocable (including oscillatable)
<u>200</u>	. Member reciprocable (including oscillatable) transversely of material flow
<u>201</u>	. Discharge rotor is actuator for vibratable wall
<u>202</u>	. Supply container wall flexing
<u>203</u>	.. Flexible wall
<u>204</u>	SIPHON COMBINED WITH DISCHARGE ASSISTANT
<u>205</u>	NONGRAVITY FEED TO TRAP OF VACUUM, GRAVITY, OR MANUAL REMOVAL TYPE
<u>206</u>	RESILIENT WALL

- 207 . Supply container delivering to receiving chamber
- 209 . Fluid pressure generating pump or pulsator and/or removable flexible wall closures
- 210 . With container handle or handgrip
- 211 . Internally extending outlet pipe
- 212 . With flow controllers or closures
- 213 .. Resilient wall actuated
- 214 . Wall deflecting means
- 215 . Nonmetallic
- 216 **AGITATOR AND/OR EJECTOR OPERATING ON MATERIAL IN EITHER (1) CONVEYER TYPE DISCHARGE ASSISTANTS HAVING TRAP CHAMBERS OR TRANSVERSE GROOVES, OR (2) MOVABLE TRAP CHAMBERS**
- 217 . Mounted on or in conveyer or movable trap chamber
- 218 .. Radially movable ejector in rotary conveyer or trap chamber
- 219 ... Double-ended ejector
- 220 . Meshing conveyer trap or groove and ejector rotor
- 221 . Cam-operated agitator or ejector
- 222 . Pivoted ejector
- 223 .. With pivoted striker
- 224 . Ball or roller form agitator or ejector
- 225 . Resilient ejector
- 226 **AGITATOR FOLLOWED BY DISCHARGE ASSISTANT AND/OR INTERCONNECTED DISCHARGE CONTROLLER**
- 227 . Three or more in series
- 228 . Flexible or pivoted agitator carried by assistant or controller movable about an axis
- 229 . Axially aligned, with axially rotary and longitudinally movement
- 230 . Biasing means constitutes agitator
- 231 . Free engagement-type connection
- 232 . Connection through eccentric carried by rotary assistant or controller
- 233 . One rotary and one reciprocating (including oscillating)
- 234 .. Reciprocating, nonpivoted
- 235 ... Rotary agitator
- 236 . All rotary
- 237 .. Relatively rotatable rings and/or plates
- 238 .. Parallel axes
- 239 .. Coaxial
- 240 ... Helix or vane agitator and terminal element
- 241 ... Agitator and terminal screw, helix, or vane
- 242 ... Agitator rigidly mounted on succeeding device
- 243 . All reciprocating (including oscillating)
- 244 .. Relatively movable in parallel planes, nonpivoted
- 245 .. Pivoted and nonpivoted reciprocating elements
- 246 .. Reciprocable axially of outlet
- 247 .. Pivoted only
- 248 ... Unitary
- 249 **FLOATING PISTON WITH PLURAL OR ALTERNATE DISCHARGE**
- 250 . With discharge volume varying means
- 251 **WITH DISCHARGE ASSISTANT (E.G., IMPELLER, PUMP, CONVEYER, MOVABLE TRAP CHAMBER, ETC.)**
- 252 . Plural
- 253 .. With material-operated differential piston
- 254 .. Three or more in series
- 255 .. Pumps only
- 256 .. Follower combined with casing enclosed impeller
- 257 ... Interconnected with movable nozzle
- 258 Utilizing fluid pressure and/or motor
- 259 Follower and impeller coaxial or parallel and interconnected
- 260 ... Follower and impeller coaxial or parallel and interconnected
- 261 Utilizing fluid pressure and/or motor
- 262 ... Utilizing fluid pressure and/or motor

- 263 .. Utilizing fluid pressure and/or motor
- 264 .. Rotors with concentrically arranged sets of axial trap chambers
- 265 .. In sets
- 266 ... With selecting means
- 267 ... With common discharge volume varying means
- 268 Variable capacity rotors
- 269 ... Container wall sections carrying set units
- 270 ... With interior material discharge guides between units
- 271 ... Rotary
- 272 Oppositely directed
- 273 Coaxial only
- 274 Spaced units
- 275 ... Reciprocating (including oscillating)
- 276 Unitary
- 277 Pivoted
- 278 .. Alternatively usable
- 279 ... Movable or removable baffles or covers for nonused assistant
- 280 .. Single outlet formed by plural discharge assistants
- 281 ... Parallel rolls
- 282 . With discharge volume varying means
- 283 .. Plural
- 284 .. Trap chambers in series
- 285 .. Source and assistant relatively adjustable axially of source outlet
- 286 ... Sleeve-type discharge controller for outlet
- 287 .. Adjustment in relatively movable actuator
- 288 .. Interchangeable, removable or selectively usable discharge assistant or element thereof
- 289 ... Reversible
- 290 .. Adjustable deflector for conveyer-type discharge assistant
- 291 .. Retractable projections
- 292 .. Interconnected radially movable adjusting means for plural rotor projection or traps
- 293 .. Rotor having plural adjustable parts of rotor form
- 294 ... Substantially coextensive disks and/or rings, axially rotary adjustment
- 295 ... Axially adjustable
- 296 Disk with axially projecting pins
- 297 Cup rotor with horizontal axis
- 298 Groove or trap rotor slidable through discharge channel
- 299 With channel blocking means
- 300 With nonrotary sleeve
- 301 Rose washer bearing
- 302 Material passage parallel to axis of rotation
- 303 Groove or trap blocking means
- 304 Axial pocket trap
- 305 .. Movable or conveyer-type trap chamber with capacity varying means
- 306 ... Single inlet-outlet, adjustable bottom
- 307 ... Wall with straight line movements
- 308 Screw adjusting means
- 309 .. Adjustable stroke pump piston, pulsator or follower
- 310 .. With discharge controller
- 311 ... Rotor with discharge controller
- 312 Discharge passage between drum-type rotor and controller
- 313 Biased controller
- 314 Reciprocating nonpivoted controller
- 315 ... Cup rotor with horizontal axis
- 316 ... Sectional discharge controller
- 317 On container side of rotor
- 318 . With bypass or return to supply
- 319 . Displacement type
- 320 . With movable nozzle interconnected therewith

<u>321.1</u>	.. With material supply container and discharge assistant casing
<u>321.2</u>	... With precompression
<u>321.3</u>	... With antileak or antisiphon means
<u>321.4</u>	... With plural-point inlet to casing
<u>321.5</u>	... Inlet trap (e.g., sump)
<u>321.6</u>	... Aligned discharge assistant, actuator, container and nozzle
<u>321.7</u>	... Container-mounted pump
<u>321.8</u>	.... With relatively movable actuator
<u>321.9</u>	.... Pump casing within supply container
<u>322</u>	. Movable element actuator projection through outlet
<u>323</u>	. With container handle or handgrip
<u>324</u>	.. With material supply container and discharge assistant casing
<u>325</u>	. Insertable cartridge or removable container
<u>326</u>	.. With follower
<u>327</u>	... Part of cartridge or removable container
<u>328</u>	. With material discharge guide on container side of discharge assistant
<u>329</u>	. Removable or movable depending cups for rotors
<u>330</u>	. With plural material outlets
<u>331</u>	.. Of different types
<u>332</u>	. With vent passage for movable trap chamber
<u>333</u>	. Motor operated
<u>334</u>	.. Fluid motor
<u>335</u>	. Actuated by pressure of or suction on material to be dispensed
<u>336</u>	. With biasing means for discharge assistant and/or its casing
<u>337</u>	.. Joint sealing bias only
<u>338</u>	... Movable encasing wall
<u>339</u>	.. For oscillating discharge assistant
<u>340</u>	.. For reciprocating piston on follower-type impeller
<u>341</u>	... Biasing means within material chamber or passage
<u>342</u>	. With scraper or wiper for or carried by discharge assistant
<u>343</u>	. With retractable projections
<u>344</u>	. Movable or conveyer-type trap chamber
<u>345</u>	.. With striking or clearing means
<u>346</u>	... Not part of the supply container outlet
<u>347</u>	... Plural and/or interconnected with gate at point of trap reentry to supply
<u>348</u>	... Sectional
<u>349</u>	... Yielding
<u>350</u>	.... Pivoted
<u>351</u>	.... Reciprocating
<u>352</u>	.... Brush
<u>353</u>	.. Barometric or angle of repose
<u>354</u>	.. With relatively movable cutoff carried by trap chamber
<u>355</u>	.. With cutoff interconnected with trap chamber for operation
<u>356</u>	.. Dipping trap chamber, nonrotary, nonendless belt
<u>357</u>	... Compound movement
<u>358</u>	... Oscillating
<u>359</u>	.. With relatively movable actuator
<u>360</u>	... Intermittent rotary
<u>361</u>	.. Reciprocating (including oscillating) conveyer-type trap chamber
<u>362</u>	... Oscillating
<u>363</u>	.... Single inlet-outlet
<u>364</u>	.... Pivot lying in chamber rim
<u>365</u>	... Plural concentric enlargements on stem
<u>366</u>	... Single inlet-outlet
<u>367</u>	.. Rotary conveyer-type trap chamber
<u>368</u>	... Single inlet-outlet
<u>369</u>	.... Scoop type
<u>370</u>	... Axial inlet and outlet
<u>371</u>	.. Endless belt carried

- 372 . With material supply container and discharge assistant with casing (e.g., supply container and pump)
- 373 .. Fluid pressure discharge
- 375 .. With antileak or antisiphon means or full-stroke mechanism
- 376 .. With plural-point inlet to casing
- 377 .. Inlet trap (e.g., sump)
- 378 .. Aligned discharge assistant, actuator, container and nozzle
- 379 .. Telescopic outlet and/or discharge-assistant casing inlet
- 380 .. Valve outlet
- 381 .. Movable discharge assistant casing
- 382 .. Internally extending outlet pipe
- 383.1 .. Container-mounted pump
- 383.2 ... Rotary pump
- 383.3 ... Movable material discharge guide
- 384 ... With piston holding means
- 385 ... Pump or pulsator casing within supply container
- 386 . Container with follower
- 386.5 .. Nonrigid follower
- 387 .. Valved outlet, movable discharge guide and/or gas vent
- 388 .. With side wall filling opening
- 389 .. Fluid pressure actuated
- 390 .. Screw actuated
- 391 .. Intermittent grip-type actuator
- 392 .. Ribbon-type follower and/or stand actuator
- 393 .. Scoop type
- 394 . Fluid pressure
- 395 .. Liquid pressure
- 396 .. With pressure limiting means
- 397 .. With pressure fluid relieving means
- 398 .. Telescopic container and/or outlet
- 399 .. With gas pressure supplying reservoir
- 400.5 .. Simultaneously operative material discharge valve and pump or pulsator operating member
- 400.7 .. Unitary mounting for fluid pressure inlet and material outlet
- 400.8 ... With pump or pulsator
- 401 .. Container-mounted fluid pressure generating pump or pulsator
- 402 ... With piston or pulsator holding means
- 402.1 .. Valve actuated by nozzle or through valve outlet
- 402.11 ... With actuation disabling means
- 402.12 ... With discharge orifice contamination guard
- 402.13 ... With container end overcap having actuator
- 402.14 ... With means to hold valve open
- 402.15 ... With container-carried actuating lever
- 402.16 ... With bypass for filling or charging
- 402.17 ... With external selector of flowpath
- 402.18 ... Separate inlets for gas and material in duct to valve
- 402.19 ... Alternative flowpath to valve when inverted
- 402.2 ... Pressure lock trap chamber
- 402.21 ... Tilting nozzle

<u>402.22</u>	.... Nozzle inner end valve headed
<u>402.23</u>	.... Valve stem in nozzle
<u>402.24</u>	... Nozzle sliding in or flexing seal ring
<u>402.25</u>	... Rod actuator pushed through valve outlet
<u>403</u>	. Film accumulating type
<u>404</u>	. Compound motions
<u>405</u>	. Discharge of material from top of supply
<u>406</u>	. Deformable discharging elements
<u>407</u>	.. Biased
<u>408</u>	. Conveyer type with deflector
<u>408.5</u>	. Agitator rigidly mounted on movable closure
<u>409</u>	. Reciprocating (including oscillating)
<u>410</u>	. Rotary
<u>411</u>	.. Central discharge
<u>412</u>	.. Helically arranged projections (e.g., screws)
<u>413</u>	... Screw with terminal outlet only
<u>414</u>	.. Peripheral surface material contact
<u>415</u>	. Endless belt
<u>416</u>	SIPHON
<u>420</u>	DROP FORMERS
<u>421</u>	. Grooved closure and/or container neck or outlet
<u>422</u>	. With valve
<u>423</u>	WITH FILM ACCUMULATING MATERIAL REMOVERS
<u>424</u>	WITH MATERIAL RETURN TO SUPPLY
<u>424.5</u>	SUPPLY CONTAINERS WITH TRAPS
<u>425</u>	. With trap chamber cutoffs
<u>426</u>	.. Plural traps, nonserial
<u>427</u>	... Single rotary cutoff member
<u>428</u>	... Interconnected discharge controllers
<u>429</u>	.... For simultaneous discharge
<u>430</u>	... Of different capacities
<u>431</u>	.. With plural discharge
<u>432</u>	... Plural level discharge volume varying
<u>433</u>	.... Independent discharge controllers
<u>434</u>	.. With discharge volume varying means
<u>435</u>	... With means to prevent adjustment during discharge
<u>436</u>	... Trap chambers in series
<u>437</u>	... Barometric or angle of repose
<u>438</u>	... With means to change trap chamber volume
<u>439</u>	.... Movable cutoff of cutoff seat carrying elements
<u>440</u>	.... Having straight-line motion
<u>441</u>	.. With container handle or handgrip
<u>442</u>	.. With vent passage for trap
<u>443</u>	.. With bypass or free-flow adjustment
<u>444</u>	.. Single inflow-outflow trap passage
<u>445</u>	.. Nonrigidly interconnected cutoffs
<u>446</u>	... Free engaging element carried by one cutoff
<u>447</u>	... Both reciprocating, nonpivoted
<u>448</u>	.. With relatively movable actuator
<u>449</u>	.. With biasing means
<u>450</u>	.. For both inlet and outlet
<u>451</u>	... Rigidly interconnected or unitary cutoffs
<u>452</u>	.... Rotary and/or pivoted only
<u>453</u>	.... Axially slidable only

<u>454</u>	. With tiltable container trap only
<u>455</u>	.. Supplementary trap
<u>456</u>	.. Single discharge passage forming trap
<u>457</u>	. Barometric or angle of repose trap chamber
<u>457.5</u>	HAND MANIPULABLE SHAKER WITH REVERSE OUTLET PASSAGE
<u>459</u>	STATIONARY AGITATOR
<u>460</u>	FUNNEL-TYPE OUTLET
<u>461</u>	. Movably interconnected
<u>462</u>	. Integral
<u>463</u>	ROCKABLE OR WEIGHTED
<u>464.1</u>	INTERNALLY EXTENDING OUTLET PIPE
<u>464.2</u>	. Porous or having plural apertures
<u>464.3</u>	. Movable
<u>464.4</u>	.. Weighted
<u>464.5</u>	.. Telescopic
<u>464.6</u>	.. Float
<u>464.7</u>	. Including sump
<u>465.1</u>	WITH CONTAINER HANDLE OR HANDGRIPS
<u>466</u>	. Plural handles
<u>467</u>	.. Detachable
<u>468</u>	. Vent in handle
<u>469</u>	. Movable handle interconnected with flow controller or closure
<u>470</u>	. Handle and actuator for flow controller or closure juxtaposed for one handed manipulation
<u>471</u>	.. Nonpivoted actuator reciprocable lengthwise of handle
<u>472</u>	.. Pivoted actuator
<u>473</u>	... On handle
<u>474</u>	... Generally lengthwise of handle
<u>475</u>	. Handle as spout, spout holder or guard
<u>475.1</u>	. Handle and spout for hot liquid decanters (e.g., coffee servers)
<u>476</u>	SPACED, ALTERNATELY SEATED FLOW CONTROLLERS OR CLOSURES FOR SINGLE OUTLET
<u>477</u>	RETARDED OR DELAYED ACTION FLOW CONTROLLERS OR CLOSURES
<u>478</u>	WITH PLURAL OPENINGS OR DISCHARGE GUIDES
<u>479</u>	. Coterminal (barometric)
<u>480</u>	. Hand-manipulable shaker, diverse-type openings (e.g., dredge top)
<u>481</u>	. Having flow controllers or closures
<u>481.5</u>	.. With movable flexible or remotely connected vent pipes
<u>482</u>	.. Plural and/or single for plural openings
<u>483</u>	... Interlocked controllers and/or closures
<u>484</u>	... Interconnected for operation and/or integral
<u>485</u>	.... For plural dispensing outlets
<u>486</u>	.... Variable number exposed and/or variably opened
<u>487</u>	.... Nonrigidly interconnected
<u>488</u>	.. For single passage into which plural passages merge
<u>489</u>	... Screw-type flow controller or closure
<u>490</u>	SLITTED RESILIENT DIAPHRAGM OR NIPPLE
<u>491</u>	OUTLET ELEMENT OPERATED BY PRESSURE OF CONTENTS
<u>492</u>	. Axially slidable tube, sleeve, or apertured cap
<u>493</u>	.. Axial discharge
<u>494</u>	. Spring form, resilient or compressible flow controller or closure
<u>495</u>	. Reciprocable, nonpivoted
<u>496</u>	.. With biasing means
<u>497</u>	... With additional means to hold against motion
<u>498</u>	SNAP-ACTING OUTLET ELEMENT
<u>499</u>	. Axially movable tube, sleeve, or apertured cap

<u>500</u>	GRAVITY OR INERTIA OPERATED MOVABLE OUTLET ELEMENTS
<u>501</u>	MOVABLE OUTLET ELEMENT ACTUATOR PROJECTING THROUGH DISCHARGE GUIDE
<u>502</u>	SECTIONAL FLOW CONTROLLER OR CLOSURE
<u>503</u>	. Interconnected for relative motion
<u>504</u>	MOTOR OPERATED OUTLET ELEMENT
<u>505</u>	WITH RELATIVELY MOVABLE ACTUATOR FOR OUTLET ELEMENT
<u>506</u>	. Plural flow controllers or closures
<u>507</u>	. Annular, outlet surrounding actuator
<u>508</u>	. For swingable elements in receptacle interior
<u>509</u>	. For nonrotary outlet element reciprocable axially of discharge opening
<u>510</u>	OUTLET ELEMENT IN ONE WALL, ROD ACTUATOR THROUGH CONTAINER INTERIOR AND ANOTHER WALL
<u>511</u>	WITH RESILIENT BIASING MEANS FOR OUTLET ELEMENT
<u>512</u>	. Joint sealing bias only
<u>513</u>	. For movable tubes, sleeves, or apertured caps
<u>514</u>	.. Axially slidable only
<u>515</u>	. For elements having plural, diverse motions
<u>516</u>	. For rotary elements
<u>517</u>	. For pivoted and swingable elements
<u>518</u>	. For elements reciprocable axially of discharge opening
<u>519</u>	AXIALLY ROTARY AND LONGITUDINALLY MOVABLE TUBES, SLEEVES, OR APERTURED CAPS
<u>520</u>	. Axial discharge
<u>521</u>	.. Axial stationary closure plug
<u>522</u>	AXIALLY SLIDABLE TUBES, SLEEVES, OR APERTURED CAPS
<u>523</u>	. Sectional, telescoping
<u>524</u>	. With telescopic guide pin
<u>525</u>	. Axial discharge
<u>526</u>	MOVABLE MATERIAL DISCHARGE GUIDE
<u>527</u>	. Foldable, bendable, collapsible or flexible
<u>528</u>	.. Closure type
<u>529</u>	.. With flow controller or closure
<u>530</u>	.. Nonuse securing means
<u>531</u>	. Closure type
<u>532</u>	.. With additional flow controller, closure or seal
<u>533</u>	. Swingable
<u>534</u>	.. Into container recess
<u>535</u>	.. From container interior
<u>536</u>	.. With flow controller or closure
<u>537</u>	. With flow controller or closure
<u>538</u>	NONUSE HOUSING OR SECURING MEANS FOR DISCHARGE GUIDES
<u>539</u>	. Reversible to extend into or out of container
<u>540</u>	OUTLET SEATED IN CONTAINER RECESS
<u>541.1</u>	WITH FRANGIBLE CLOSURE FOR OUTLET
<u>541.2</u>	. With cutting or punching or with cutter or puncher accommodating means
<u>541.3</u>	. Closure or closure portion broken by pressure of container content
<u>541.4</u>	.. About line or point of weakness
<u>541.5</u>	. Having reusable closure
<u>541.6</u>	. About line or point of weakness
<u>541.7</u>	.. Adapted for engagement with special tool (e.g., slotted key)
<u>541.8</u>	... Tool serves as closure
<u>541.9</u>	.. With integral gripping means (e.g., pull tab)
<u>542</u>	WITH PACKING-TYPE SEAL FOR OUTLET
<u>543</u>	WITH SINGLE STRAND, CORD OR WIRE CONNECTOR FOR REMOVABLE OUTLET ELEMENTS
<u>544</u>	WITH FLOW CONTROLLER OR CLOSURE
<u>545</u>	. Plural and/or carried by separably attached element

- 546 .. Cap carried axial plug
- 547 . With interior material guide or restrictor
- 548 . Rotary, axially
- 549 .. With axial longitudinal motion
- 550 ... And additional pivotal motion
- 551 ... Nonapertured screw cap
- 552 ... Screw plug or disc
- 553 .. Apertured sleeve or cap, nonaxial discharge
- 554 .. Plug
- 555 .. Between fixed plates or flanges
- 556 . Pivoted
- 557 .. Pivot axis parallel to axis of outlet opening
- 558 .. Bail type
- 559 . Reciprocatory
- 560 .. Arcuate path
- 561 .. Between fixed plates or flanges
- 562 . Cap
- 563 . Plug
- 564 WITH INTERIOR MATERIAL GUIDE OR RESTRICTOR**
- 565 SIFTER, SPRINKLER OR PLURAL OPENING PATTERNS**
- 566 NOZZLES, SPOUTS AND POURING DEVICES**
- 567 . With separable attaching means
- 568 .. Screw
- 569 .. Abutment for container interior
- 570 .. Rim mounted, interengaging groove and bead or flange
- 571 . Antidrip
- 572 . Integral with container walls
- 573 . Reinforced or with container-connected brace
- 574 . With folded seam
- 575 MISCELLANEOUS (E.G., OUTLET SHAPES)**

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